

CLAIMS

1. Placement of the units of frequency converters, especially the power units (PU#21 – PU #24, PU#31 – PU#34) of frequency converters in a switch cabinet (21-23, 31-33) or equivalent, **characterized** in

that the power units are placed one above the other in at least one section (22, 32) of the switch cabinet or equivalent, and

that the cooling air or liquid circulation of the power units has been directed to flow substantially horizontally through their parts requiring cooling, in such manner that on at least one side of the section (22, 32) housing the power units is provided a section, such as a bay or an otherwise protected space, through which space/spaces cooling air or liquid is passed into the power units and likewise passed out.

2. Placement according to claim 1, **characterized** in that power units of different frequency converters and/or phase units of the same frequency converter are placed one above the other in the same bay.

3. Placement according to claim 1, **characterized** in that a common fan is provided for air-cooled power units placed in the same bay.

4. Placement according to claim 1, **characterized** in that a separate blast apparatus (26-29) is provided beside each power unit.

5. Placement according to claim 1, **characterized** in that provided on both sides of the section (22, 32), into which the power units are placed, are two other sections, such as bays or otherwise protected spaces, via the first one of which cooling air is supplied into the power units while the cooling air is passed out via the second one.

6. Placement according to claim 1, **characterized** in that, in liquid-cooled power units, liquid couplings to piping may be located on both sides of the power units or on one side only.

7. Placement according to claim 1, **characterized** in that the supply voltage and load cabling (37-42) connected to the power units has been arranged to run via the sections adjacent to the section (22, 32) housing the power units in such manner that supply takes place via a first bay and output via a second bay.

8. Placement according to claim 1, **characterized** in that the supply voltage and load cabling (37-42) connected to the power units has been arranged to run via a section adjacent to the section (22, 32) housing the power modules in such manner that both supply and output cables are placed on the same side

if the input and output connections of the power unit are placed on the same side.

9. Placement according to claim 1, wherein the power and control units (PU#21 – PU#24, CU#21 – CU#24) are distinct from each other, **characterized**
- 5 in that the power units are placed in the hind part of the switch cabinet or equivalent while at least the control units (CU#21 – CU#24) are placed in the front part, and the front and hind parts are separated from each other by a wall (WALL1).